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1880.]

[No. 5.

BULLETIN

OF THE

American Geographical Society.

No. 11 West 29th Street.

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NEW YORK :

PRINTED FOR THE SOCIETY.

1881.

J O U R N A L

OF THE

American Geographical Society

OF

NEW YORK.

M.DCCC.LXXX.



VOL. XII.

NEW YORK:
PRINTED FOR THE SOCIETY.

AMERICAN GEOGRAPHICAL SOCIETY.

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Paris, France.

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England.

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1859 Arnoux, William H.	1874 Acker, David D.
1859 Arnold, David H. (L. F.)	1874 Avery, Samuel P.
1859 Aymar, William. (L. F.)	1874 Amend, Bernhard G.
1860 Acton, Thomas C.	1874 Ascher, Adolph.
1869 Auchmuty, Richard Tylden.	1874 Agnew, John T. (L. F.)
1871 Atterbury, Rev. Wm. W., D.D.	1874 Arnold, Richard.
1872 Allen, Horatio M.	1874 Allen, Henry Wilder.
1873 Albert, Halpern.	1874 Amy, Henry.
1874 Alexander, Junius B.	1874 Agnew, Alexander McL.
1874 Arthur, Gen. Chester A.	1874 Adams, Charles Francis.
1874 Auferman, August.	1874 Astor, W. W.
1874 Auchincloss, Henry B.	1874 Appleton, John A.

1874 Appleton, D. S.
 1874 Anderson, Henry H.
 1874 Alsop, William.
 1875 Amsinck, Gustav.
 1876 Andrews, Wm. L.
 1876 Appleton, Nathan.
 1878 Austin, Charles P.
 1879 Austin, William.
 1879 Astoin, Felix.
 1879 Agostini, Joseph.
 1879 Ashley, Lucius C.
 1879 Agnew, Cornelius R., M.D.
 1879 Ashley, Lucien S.
 1879 Astor, John Jacob. (L. F.)
 1880 Almy, Harvey S.
 1880 Anthony, James L.
 1852 Bancroft, George. (L. F.)
 1852 Barney, Hiram. (L. F.)
 1853 Brown, James M.
 1853 Butler, Charles.
 1856 Baker, Francis. (L. F.)
 1856 Berry, Richard.
 1856 Brevoort, J. Carson.
 1859 Brown, James. (L. F.)
 1859 Boorman, J. Marcus. (L. F.)
 1859 Boardman, Andrew.
 1859 Bernheimer, Isaac.
 1859 Belmont, August. (L. F.)
 1859 Barlow, S. L. M.
 1861 Butterfield, Gen. Daniel.
 1865 Banvard, John. (L. F.)
 1865 Bellows, Rev. Henry W., D.D.
 1868 Banks, David.
 1868 Beckwith, N. M.
 1868 Bennett, James Gordon.
 1868 Bernheimer, Adolph.
 1868 Bernheimer, Simon.
 1868 Brady, John R.
 1869 Bailey, Jas. Muhlenberg. (L. F.)
 1869 Banyer, Goldsboro.
 1869 Bickmore, Prof. A. S.
 1869 Bierstadt, Albert.
 1870 Butler, Cyrus.
 1870 Botta, Prof. Vincenzo.
 1870 Body, John E.
 1870 Bishop, T. Alston. (L. F.)
 1870 Bell, George.
 1872 Bryce, James. (L. F.)
 1872 Brown, Walston H.
 1873 Bailey, N. P.
 1874 Bishop, D. W. (L. F.)
 1874 Bien, Julius.
 1874 Beecher, Rev. Henry Ward.
 1874 Bartlett, Willard.
 1874 Bissinger, Philip.
 1874 Barney, Newcomb C.
 1874 Backus, Henry C.
 1874 Ballin, Eugene S.
 1874 Baldwin, Townsend B.
 1874 Bates, Levi M.
 1874 Barnes, John S.
 1874 Barbour, Thomas (L. F.)
 1874 Bonner, Robert.
 1874 Bonn, William B.
 1874 Bjerring, Rev. Nicolas.
 1874 Barnard, Horace.
 1874 Barnard, F. A. P., LL.D.
 1874 Benjamin, John.
 1874 Butler, Wm. Allen.
 1874 Bartow, Morey H.
 1874 Barr, William.
 1874 Belding, Milo M.
 1874 Buckley, Rev. Jas. M.
 1874 Bookstaver, Henry W.
 1874 Brownson, Lieut. W. H., U.S.N.
 1875 Barney, Charles T.
 1875 Beaman, Charles C., Jr.
 1875 Bernheimer, J. A.
 1875 Beckwith, Leonard F.
 1875 Benjamin, E. B.
 1875 Beekman, Gerard.
 1875 Babcock, Gen. O. E., U.S. Army
 1875 Brownell, Silas B.
 1875 Burgess, William J.
 1875 Brown, Vernon H.
 1875 Barnes, William.
 1875 Beste, Henry.
 1875 Bredt, Ernest.
 1875 Bedle, Joseph D.
 1875 Belknap, Capt. Geo. E., U.S.N.
 1875 Bowie, Augustus J., Jr.

1876 Bowne, Richard H.	1869 Cullum, Gen. George W., U. S.
1876 Burnett, Henry L.	Army. (L. F.)
1876 Buell, James.	1870 Conklin, William A.
1876 Banks, James L., M.D.	1872 Corse, Israel.
1876 Baldwin, Commodore Charles H., U.S.N.	1872 Conklin, Eugene E.
1876 Brower, John.	1872 Crawford, Gen. S. W., U. S.
1876 Billings, Frederick.	Army.
1876 Bellew, F. H. T.	1872 Clark, E. V.
1877 Booth, George.	1872 Cox, Samuel S.
1877 Bixby, Robert F.	1873 Coster, Charles H.
1877 Börs, Christian.	1874 Cruickshank, James, LL.D.
1877 Briggs, Prof. Charles A.	1874 Connery, T. B.
1877 Blanchard, George R.	1874 Cowdrey, N. A.
1877 Blatchford, Eliphalet W.	1874 Curphey, James.
1878 Brodhead, Richard.	1874 Campbell, Allan.
1878 Bliss, Cornelius N.	1874 Church, Col. George E.
1878 Brown, G. Melville.	1874 Chistern, F. W.
1878 Barton, Oliver Grant. (L. F.)	1874 Cockcroft, Jacob H. V.
1878 Brown, Rev. Philip A. H.	1874 Chickering, Charles F.
1878 Brand, James.	1874 Comstock, Cornelius.
1878 Brown, J. Warren.	1874 Constable, James M.
1878 Brown, J. Romaine.	1874 Ceballos, J. M.
1879 Brady, James T.	1874 Carter, Walter S.
1879 Babcock, Henry C.	1874 Caswell, Wm. H.
1879 Bronson, Theodore B.	1874 Crerar, John.
1879 Barattoni, C. A.	1874 Crocker, David.
1879 Bowen, Gen. Edmund S.	1874 Cruikshank, Edwin A.
1880 Bayard, Edward, M. D.	1874 Crosby, J. Schuyler.
1880 Barker, Fordyce D.	1874 Coates, Isaac T., M.D.
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1880 Beach, Miles.	1874 Colgate, James B.
1880 Bamberger, A. E.	1874 Constantine, Andrew J.
1880 Banks, D. S.	1874 Constantine, John.
1880 Bonnett, Charles P.	1874 Corning, Erastus.
1852 Colton, Joseph H. (L. F.)	1874 Cottenet, Francis.
1855 Conkling, Frederick A. (L. F.)	1874 Cossitt, Frederick H.
1855 Cooper, Peter.	1874 Coutan, Charles E.
1856 Cooley, James E. (L. F.)	1874 Conyngham, Wm. L.
1856 Cooper, Edward.	1874 Crosby, Hiram B.
1856 Crooks, Ramsey. (L. F.)	1874 Crocker, Geo. A.
1863 Cary, William F. (L. F.)	1874 Crocker, Wm. Baylies.
1868 Catlin, N. W. Stuyvesant (L.F.)	1874 Chickering, George H.
1868 Cisco, John J.	1874 Carter, Oliver S.
1868 Chapman, Joseph H.	1874 Carhart, Thos. F.
	1874 Catlin, Julius, Jr.

1874 Cabot, Stephen.
 1874 Colgate, Robert.
 1874 Curren, Robert.
 1875 Clendenin, J. W.
 1875 Cameron, R. W.
 1875 Cushman, W. F.
 1875 Colgate, Bowles.
 1875 Cooper, George C.
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 1875 Cassebeer, Henry A., Jr.
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 1876 Clarke, W. H.
 1876 Cullum, Mrs. George W. (L. F.)
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 1876 Cornell, John B.
 1876 Curtis, Benj. L.
 1876 Curtis, Benjamin R.
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 1880 Calvin, Delano C.
 1880 Clark, Lester W.
 1880 Chamberlain, J. A.
 1880 Cohen, Maurice S.
 1880 Collins, John C.
 1880 Cormack, John A.
 1880 Caverley, William.
 1880 Camp, W. A.
 1880 Clymer, Edward M.
 1880 Cronly, John E.
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 1855 Dunshee, Prof. Henry W.
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 1856 Dodge, Wm. E., Jr.
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 1870 Davies, Alexander J. (L. F.)
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 1870 Dinsmore, William B.
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 1873 De Peyster, Frederick. (L. F.)
 1873 Delano, Franklin H.
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 1874 Davis, Noah.
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1874 Eaton, D. Cady.	1875 Foulke, Thomas.
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1868 Gebhard, Wm. H. (L. F.)	1859 Havemeyer, John C. (L. F.)
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1868 Green, Andrew H.	1868 Huntington, Daniel. (L. F.)
1868 Greene, Gen. G. S.	1868 Hurlbert, William H.
1869 Gilbert, Clinton.	1868 Hoyt, David.
1870 Graham, Gen. C. K.	1868 Hoguet, Robert J.
1872 Gerard, James W.	1868 Hall, Elial F.
1872 Grinnell, R. M. (L. F.)	1868 Hayes, Isaac I., M.D.
1873 Gillmore, Gen. Q. A., U.S.A.	1868 Hadden, John A. (L. F.)
1873 Gedney, Frederick G.	1868 Hallock, Mrs. Frances.
1873 Glaubensklee, Theo. G.	1870 Hawkes, Prof. W. Wright.
1874 Gardner, Hugh.	1870 Havens, Charles G.
1874 Green, John.	1870 Harrison, Prof. Thomas F.
1874 Gunther, William Henry.	1871 Hamilton, Alexander, Jr.
1874 Gunther, F. F.	1871 Hand, Clifford A.
1874 Gibert, Fred. E.	1872 Hammersley, John W. (L. F.)
1874 Gibbs, Theodore K.	1872 Hawkins, Dexter A.
1874 Gottsberger, William S.	1872 Holbrook, Levi.
1874 Goodsell, James H.	1873 Havemeyer, Theo. A.
1874 Galpen, Horace.	1874 Hamersley, A. Gordon. (L. F.)
1875 Greene, Lieut. F. V., U.S.A.	1874 Hamersley, Louis C. (L. F.)
1875 Gordon, Robert.	1874 Hancock, Gen. Winfield S., U.S.A.
1875 Germond, Wellington.	1874 Hay, John.
1875 Greene, G. S., Jr., C.E.	1874 Hitchcock, Rev. Roswell D., D.D.
1875 Garrison, Cornelius K.	1874 Havemeyer, Hector C.
1875 Gibson, James.	1874 Hoguet, Henry L.
1875 Goepf, Charles.	1874 Hoyt, Oliver.
1876 Gautier, Dudley G.	1874 Hurlbert, Henry A. (L. F.)
1877 Gaylord, Augustus.	1874 Hutton, Benjamin H.
1877 Guleke, H. F., M.D.	1874 Haydock, George G.
1878 Gillies, James W.	1874 Haines, John P.
1878 Garrison, William R.	1874 Hinton, John H., M.D. (L. F.)
1879 Graves, Arthur B.	1874 Hendricks, M. M.
1879 Gebhard, Edward.	1874 Hawk, Samuel.
1879 Gay, Joseph E.	1874 Hallgarten, Adolphus.
1880 Graeff, Albert I.	1874 Havemeyer, James.
1880 Gorringe, Lt. Comdr. Henry H., U. S. N.	1874 Holbrook, E. F.
1880 Gunning, William J.	1874 Hoe, Richard M.
1880 Greer, Henry.	1874 Harper, Nathan.
1856 Hewitt, Abram S.	1874 Hunter, Charles F.
1856 Hunt, Wilson G.	1874 Hendricks, Edmund.
	1874 Hendricks, Joshua.
	1874 Hawes, James W.

1874 Hatch, Rufus.	1874 Ives, Fred'k E.
1874 Huntington, C. P.	1874 Iselin, Adrian, Jr.
1874 Hunter, Lieut. Edward, U.S.A.	1879 Inman, William H.
1874 Hoyt, Harlow M.	1879 Isham, Charles H.
1875 Hubbard, Prof. O. P.	
1875 Howard, Thomas T., Jr.	1852 Jay, John. (L. F.)
1875 Hammond, Wm. A., M.D.	1852 Jones, John D. (L. F.)
1875 Houston, Col. D. C., U.S.A.	1868 Johnson, Henry W.
1875 Heuer, Capt. Wm. H., U.S.A.	1868 Johnson, Hezron A.
1875 Howell, Maj. Charles W., U.S.A.	1870 James, Fred'k P.
1875 Hoadley, John C.	1871 Jones, Walter R. T.
1875 Hughes, Wm. H. T.	1874 Judson, Wm. D.
1875 Hoppenstedt, G. L.	1874 Janssen, Gerhard.
1875 Hanemann, John F.	1874 Jesup, M. K.
1875 Howland, Meredith.	1874 Jaffray, Edward S.
1875 Hyde, Henry B.	1874 Jenkins, Wm. L.
1875 Harper, P. J. A.	1874 James, D. Willis.
1875 Hazen, Gen. W. B., U.S. Army.	1874 Jameson, Joseph A.
1875 Harris, Siegmund.	1874 Jordan, Conrad N.
1875 Hun, Leonard G.	1874 Jones, George.
1876 Heminway, Albert G.	1874 Jaffray, Robert.
1876 Holt, Henry.	1876 Johnston, James W.
1876 Hallock, Henry W.	1876 Jones, John M.
1876 Halsted, Major Geo. B.	1878 Jones, George H.
1876 Hoare, W. Robert.	1878 Judson, Capt. J. A., C.E.
1876 Holman, Frank E.	1879 Jay, William.
1876 Hyde, Samuel N.	1880 Jones, Frederick W.
1876 Hoes, Wm. M.	1880 Jewett, George L.
1876 Hatfield, J. B. T.	1880 Jenkins, Silvanus F.
1877 Houghton, Prof. Walter R.	
1878 Howe, George S.	1854 Kennedy, Robert Lenox.
1878 Hermann, Henry.	1869 Kelly, Eugene.
1878 Hinman, Wm. K.	1870 Kühne, Frederick.
1878 Holden, Horace.	1872 Kendrick, Col. H. L., U.S. Army.
1878 Hitchcock, Hiram	1873 Kennan, George.
1879 Hamilton, William G.	1874 King, Edward.
1879 Harris, Col. Robert.	1874 Kearney, Joseph R.
1879 Hayes, A. A., Jr.	1874 Kunhardt, Henry R.
1879 Hamilton, Capt. F. B., U.S.A.	1874 Kingsland, Wm. M. (L. F.)
1880 Hall, Hayden H.	1874 Kidder, Henry P.
1880 Hagner, Gen. Peter V., U. S. A.	1874 Kalbfleisch, Charles H.
1880 Howard, William Lee.	1874 Knoedler, Julius.
1880 Hickox, Charles R.	1874 Keck, Thomas
1880 Hollinshed, George.	1874 Kemp, William.
1859 Ireland, John B.	1874 Knowler, John.
	1874 King, David, Jr.

1875 Knapp, Herman, M.D.	1876 Low, A. Augustus.
1876 Knauth, Percival.	1876 Lindau, Leopold.
1877 King, Clarence.	1877 Lockwood, Le Grand.
1877 Kane, Gen. Thomas L.	1877 Lindley, John.
1878 Kernochan, Jas. Lorillard. (L. F.)	1877 Latrobe, John H. B.
1879 Kane, S. Nicholson.	1878 Loubat, J. F., LL.D. (L. F.)
1880 Kidder, A. S., M. D.	1878 Leon, Nestor Ponce de
1880 Keene, James R. (L. F.)	1879 Levy, Augustus H.
1880 Krotel, M. Luther	1880 Lang, Alexander.
1880 Kopper, Philip W.	1880 Learned, Edward.
	1880 Lee, William H.
1852 Livingston, Cambridge. (L. F.)	1852 Myers, Col. T. Bailey. (L. F.)
1857 Low, A. A.	1853 Moore, George H. (L. F.)
1859 Lathers, Richard. (L. F.)	1856 Morgan, E. D.
1868 Lawrence, Abraham R.	1856 Monroe, Ebenezer.
1869 Lawrence, John S. (L. F.)	1856 Manners, David S.
1870 Loew, Frederick W.	1859 MacMullen, John.
1870 Lyman, Edward H. R.	1859 Morrell, Wm. H. (L. F.)
1871 Letson, Robert S	1859 Moore, Frank. (L. F.)
1871 Larremore, Richard L.	1863 May, Lewis.
1871 Lee, Ambrose.	1863 Moore, W. H. H. (L. F.)
1872 Libbey, William. (L. F.)	1864 Morton, Levi P.
1873 Lydig, Mrs. P. M.	1866 Morris, Robert R.
1874 Lathrop, F. S. (L. F.)	1868 Morrison, Henry.
1874 Lauterbach, Edward.	1868 Moreau, John B.
1874 Livingston, Robert J. (L. F.)	1868 Martin, Isaac P.
1874 Langdon, Walter. (L. F.)	1868 Marquand, Henry G.
1874 Lorillard, Peter.	1868 Marsh, Luther R.
1874 Lord, George W. T.	1868 MacKellar, William.
1874 Lorillard, George L.	1868 McClure, George.
1874 Livingston, John A.	1869 Moore, Henderson.
1874 Livingston, Robert E.	1870 Marbury, Francis F.
1874 Littlejohn, James.	1870 Murray, D. Colden.
1874 Lawton, Walter E.	1870 Miles, Edward D.
1874 Lawrence, Jos. B.	1872 Myer, F. William.
1874 Leggett, Francis W.	1872 Matthews, Edward. (L. F.)
1874 Le Comte, Joseph.	1872 Marié, Peter. (L. F.)
1874 Lewis, Walter H.	1873 Moore, C. B.
1874 Lawson, Leonidas M.	1874 Morris, Henry L.
1874 Lane, George W.	1874 Mailler, W. H.
1874 Lawrence, Samuel B.	1874 Macy, William H.
1874 Lawrence, Effingham N.	1874 Marble, Manton.
1874 Lesher, Stephen R.	1874 Morrison, Edward.
1875 Luff, George.	1874 Morgan, W. F.
1875 Low, Seth.	1874 Miller, Philip S.
1875 Lawrence, George N.	1874 McElligott, Henry R.

1874 Mott, Alexander B., M.D.	1873 Neilson, Frederic.
1874 Moir, James.	1874 Nourse, Prof. J. E.
1874 Morgan, J. Pierpont. (L. F.)	1874 Newell, John.
1874 Maclay, Isaac W., C.E.	1874 Niles, William W.
1874 Myers, John K.	1874 Nones, Alexander.
1874 Martin, John M.	1874 Newcombe, Isaac B.
1874 McAlpin, David H.	1875 Northrop, A. L.
1874 Merrall, William J.	1880 Nelson, William Jr.
1874 Moulton, Clarence F.	
1874 Miller, Geo. Macculloch.	1868 Ogden, Alfred.
1875 Marshall, F. Pelham.	1869 O'Conor, Charles.
1875 Mitchell, Edward.	1874 Ottendorfer, Oswald.
1875 Macy, Arthur.	1874 Osgood, Franklin.
1875 Marcus, Arnold.	1874 Olyphant, Robert M.
1875 Meyer, Theo. F. H.	1874 Oakley, E. Benedict.
1875 Mott, Henry A., Jr.	1874 Owen, Frederick N.
1875 Michler, Gen. Nathaniel, U.S.A.	1875 Otterbourg, Marcus.
1875 Monheimer, Joseph A.	1875 Ottiwell, John D.
1875 Magoun, George C.	1875 O'Connor, Thomas H.
1875 Maclay, Moses B.	1875 Opdyke, William S.
1875 Martin, Bradley.	1876 Olmsted, Fred'k Law.
1875 Meyer, L. H.	1876 Olmstead, Dwight H.
1875 McLanahan, Geo. William.	1877 O'Gorman, Richard.
1876 Mitchell, W. Howard.	1877 Ogden, Isaac C., Jr.
1876 Mitchell, Edwin P.	1878 Osgood, Prof. Howard.
1876 Mattson, Morris, M.D.	1879 Osborn, Henry F.
1877 Morton, Wm. J., M.D.	1879 O'Gorman, Richard, Jr.
1877 Mattsell, George W.	1879 O'Brien, Thomas.
1878 Morison, John C.	1880 O'Shaughnessy, John W. (L. F.)
1878 Merrick, William H.	
1878 Montant, Alphonse.	1852 Prime, Frederick. (L. F.)
1878 Musgrave, Thomas B. (L. F.)	1852 Poor, Henry V. (L. F.)
1878 Mason, Lieut. T. B. M., U.S.N. (L. F.)	1852 Pierrepont, Henry E. (L. F.)
1879 Marshall, William I.	1855 Pierrepont, Edwards.
1879 Mather, Frederick E.	1857 Pyne, Percy R.
1879 Motz, Ferdinand.	1859 Purser, George H.
1879 Miller, John Bleecker.	1859 Prime, Fred'k E. (L. F.)
1879 Monteith, James.	1860 Phelps, Royal. (L. F.)
1880 Mills, D. O. (L. F.)	1862 Phillips, George W.
1880 Mann, Edward C., M. D.	1868 Powers, William P.
1880 Mason, Thomas D.	1868 Paulison, John P.
1880 Mackenzie, Lieut. M. R. L., U.S.N.	1868 Parton, James.
1880 Morrison, James E.	1871 Potter, Howard.
1880 Massey, William M.	1871 Peabody, Charles A.
1859 Norrie, Adam. (L. F.)	1872 Parish, Henry.
1870 Neilson, William H.	1873 Plum, Elias.
	1874 Parker, Willard, M.D.

1874 Peake, William I.
 1874 Peabody, Arthur J.
 1874 Penfold, William Hall.
 1874 Phelps, I. N.
 1874 Phoenix, S. Whitney. (L. F.)
 1874 Potter, Orlando B.
 1874 Pondir, John.
 1874 Popham, William H.
 1874 Parsons, George W.
 1874 Paris, Sherman.
 1874 Pastor, Henry.
 1874 Preble, John Q.
 1874 Porter, John K.
 1874 Packer, Elisha A.
 1874 Powers, George J.
 1874 Pellew, Henry E.
 1874 Prichard, William M.
 1875 Prentice, W. P.
 1875 Pope, Gen. John, U. S. Army.
 1875 Pfund, Anton.
 1875 Peipers, Hugo.
 1875 Porter, Gen. Horace.
 1876 Perkins, George W.
 1876 Parsons, Levi.
 1876 Peet, William E.
 1876 Plum, James R.
 1876 Palmer, Gen. W. J.
 1877 Prime, Rev. Wendell, D.D.
 1878 Parsons, Edwin.
 1878 Prescott, George B.
 1879 Peck, Prof. Myron Griffin.
 1880 Pinchot, James W.
 1880 Powell, Wilson M.

 1854 Ruggles, Samuel B.
 1854 Rutherford, L. M.
 1856 Randolph, Anson D. F.
 1856 Remsen, William. (L. F.)
 1856 Riker, John H.
 1859 Rapallo, Charles A.
 1859 Reckendorfer, Joseph. (L. F.)
 1861 Rogers, C. B. (L. F.)
 1868 Raven, Anton A.
 1868 Rose, Cornelius.
 1872 Robbins, Chandler. (L. F.)
 1873 Reinhart, B. F. (L. F.)

 1874 Reid, Whitelaw.
 1874 Rives, Francis R.
 1874 Richard, Auguste.
 1874 Rogers, H. Livingston.
 1874 Riker, William J.
 1874 Requa, James M.
 1874 Reynes, Jaime.
 1874 Renauld, Peter A. H.
 1874 Rhoades, John H.
 1874 Ramsey, Charles G.
 1874 Ransom, F. A.
 1874 Rhoades, Lyman.
 1875 Roosevelt, Clinton.
 1875 Rives, G. L.
 1875 Roberts, Nathan B.
 1875 Read, J. Meredith.
 1875 Rose, Charles.
 1875 Rosenfeld, Isaac.
 1876 Ross, William B.
 1877 Rose, Theodore.
 1877 Rice, A. Thorndike.
 1877 Roome, William P.
 1878 Rogers, Charles H.
 1878 Roorback, Orville A.
 1878 Rainey, Thomas, M.D.
 1878 Robinson, Thomas H.
 1879 Redmond, James Morton.
 1879 Rhinelander, Miss J. (L. F.)
 1880 Robinson, Mrs. John A. (L. F.)
 1880 Robinson, Henry J.
 1880 Radcliffe, Henry G.

 1853 Smith, James O., M.D.
 1854 Sewell, Henry F.
 1855 Stuart, Robert L.
 1856 Stebbins, Henry G.
 1856 Spofford, Paul N.
 1856 Schermerhorn, Wm. C.
 1856 Sherman, W. Watts.
 1859 Schell, Augustus. (L. F.)
 1859 Schultz, John H. (L. F.)
 1860 Stout, Francis A. (L. F.)
 1868 Seward, Clarence A.
 1868 Shea, George.
 1869 Savage, John. (L. F.)
 1869 Strebeigh, Robert M.

1870 Schell, Richard. (L. F.)	1874 Schaus, William.
1870 Sherwood, John.	1874 Simpkins, N. S., Jr.
1870 Schafer, Samuel M.	1874 Spinney, Joseph S.
1870 Schafer, Simon.	1874 Salomon, Edward.
1870 Seligman, James.	1874 Sewell, Robert.
1870 Seligman, Jesse.	1874 Striker, J. A.
1870 Stoughton, Charles B.	1875 Stanford, William H.
1871 Shaler, Gen. Alexander.	1875 Smith, Lewis Bayard.
1871 Swan, William H.	1875 Smith, Charles Stewart.
1872 Stern, Myer.	1875 Stewart, Col. Charles S., U S. A.
1872 Stengel, Prof. Frederick.	1875 Sturges, Henry C.
1872 Steiger, E.	1875 Schultz, Carl H.
1872 Stuyvesant, Rutherford. (L. F.)	1875 Stone, Charles Francis.
1873 Smith, James M.	1875 Sandford, Elliott. (L. F.)
1873 Slevin, Thomas E.	1875 Stranahan, J. S. T.
1873 Sturges, Frederick.	1875 Schofield, Gen. John M., U.S.A.
1873 Spencer, James C.	1875 Schieffelin, H. Maunsell.
1873 Scott, Julian. (L. F.)	1875 Schack, Fred.
1873 Southworth, Alvan S. (L. F.)	1875 Sherman, Isaac.
1873 Sturgis, Frank K. (L. F.)	1875 Sibley, Gen. Henry H., U.S.A.
1874 Stone, Henry.	1875 Schiff, Jacob H.
1874 Sands, Harry M.	1875 Strazburger, Oscar.
1874 Steinway, William.	1875 Schlesinger, Alfred.
1874 Storrs, Charles. (L. F.)	1875 Smith, Apollos.
1874 Sands, Philip J.	1875 Smith, Augustine.
1874 Smith, Samuel Drake.	1876 Schem, Prof. Alexander J.
1874 Sloan, Samuel.	1876 Smith, Harsen H.
1874 Schermerhorn, F. Augustus.	1876 Sibley, Hiram W.
1874 Stuyvesant, Robert R.	1876 Spaulding, Henry F.
1874 Scott, Col. Henry L.	1876 Smith, Dwight, M.D.
1874 Scudder, Henry J.	1876 Stryker, Gen. William S.
1874 Stuart, Joseph.	1876 Stone, A. B.
1874 Swarr, David M.	1877 Schuyler, Philip
1874 Stokes, James.	1877 Shearman, William P.
1874 Strong, W. L.	1877 Sanford, Henry S.
1874 Steward, D. Jackson.	1877 Sanger, Major Joseph P., U.S.A.
1874 Stevens, Alexander Henry.	1877 Schaff, Rev. Philip, D.D.
1874 Sherman, Benjamin B.	1878 Scott, James.
1874 Shethar, Samuel.	1878 Stewart, William Rhinelander.
1874 Sheafe, J. F.	1878 Slocum, J. J.
1874 Schieffelin, Samuel B.	1878 Sanford, A. Wright.
1874 Scott, Thomas A.	1878 Sands, William R.
1874 Stiger, William E.	1878 Smith, S. Newton.
1874 Stillwell, Benjamin M.	1878 Smull, W. P.
1874 Sawyer, Warren.	1878 Sabla, Theodore de Joly de.
1874 Sands, Andrew H.	1879 Saltus, Edgar Evertson.

1879 Simion, Leonhard.	1875 Toel, William.
1879 Smith, Herbert H.	1875 Terbell, Henry S.
1879 Stone, R. C.	1876 Tappan, J. Nelson.
1879 Speir, Francis, Jr.	1876 Trenchard, Edward.
1879 Stevens, Frederick W. (L. F.)	1876 Totten, Lieut. George Mansfield, U. S. Navy.
1879 Smith, E. Reuel. (L. F.)	1876 Terry, Rev. Roderick.
1879 Shields, Prof. Charles W.	1877 Thomas, T. Gaillard, M.D.
1879 Stetson, Francis Lynde.	1877 Tillinghast, William H.
1879 Squires, Grant.	1877 Talcott, James. (L. F.)
1879 Spencer, Mrs. Catherine L. (L. F.)	1877 Tucker, Rev. William J., D.D.
1880 Saville, H. M., M. D.	1878 Taylor, Rev. Wm. M., D.D.
1880 Southwick, Henry K.	1879 Thompson, J. P.
1880 Starr, Theodore B.	1879 Turnbull, Robert J.
1880 Suydam, John R., Jr.	1880 Tailer, William H.
1880 Smythe, Henry.	
1880 Style, Rev. E. W., D. D.	1876 Uhl, Herman.
1880 Stark, L. J. N.	
1880 Sabin, Joseph.	1854 Viele, Gen. Egbert L.
1880 Stokes, George H.	1868 Van Santvoord, C.
1880 Savery, Bartlett M.	1869 Vanderpoel, Aaron J.
1880 Shepherd, Sherringham A.	1870 Van Brunt, Charles H.
1855 Tellkampf, T. A., M.D.	1874 Voorhis, William.
1856 Tiffany, Charles L.	1874 Vanderbilt, William H.
1856 Townsend, Randolph W.	1874 Vincent, Frank, Jr.
1859 Tracy, Charles.	1874 Vyse, Thomas A., Jr.
1868 Taylor, Douglas.	1874 Van Volkenburgh, P.
1868 Tilden, Samuel J.	1874 Van Rensselaer, K.
1870 Tuckerman, Lucius.	1874 Vail, Henry F.
1870 Thomson, James.	1875 Vance, Samuel B. H.
1872 Tower, Gen. Z. B., U. S. Army.	1875 Van Buren, John D., Jr.
1872 Tracy, William.	1875 Valentine, Lawson.
1872 Tyler, Arthur W.	1875 Von Post, H. C.
1874 Thompson, David G. (L. F.)	1875 Vanderpoel, A. Ernest.
1874 Tiemann, Peter C.	1875 Verhuven, Henry F.
1874 Tefft, Erastus T.	1875 Von Dorrien, S.
1874 Thorne, Jonathan.	1876 Van Hoesen, George M.
1874 Tousey, Sinclair.	1876 Van Brunt, Cornelius.
1874 Trevor, John B.	1877 Vanderbilt, Cornelius.
1874 Taylor, Alfred J.	1877 Voorhees, Charles H.
1874 Thorne, William H.	1878 Vanderbilt, William K. (L. F.)
1874 Turner, Herbert B.	1878 Voorhis, John R.
1874 Terry, Com'r Edward, U.S.N.	1879 Vilas, Royal C.
1875 Taintor, Charles M.	1880 Van Hesse, Christern.
1875 Thurber, Francis B.	1880 Van Alen, James H.
1875 Terry, Gen. Alfred H., U.S. Army.	1880 Van Tassel, Frank S.

1854 Webb, William H.	1875 Warner, Lewis T., M.D.
1854 Wetmore, Samuel. (L. F.)	1875 Windmuller, Louis.
1854 Wittthaus, G. H. (L. F.)	1875 White, David, C.E.
1856 Westermann, B.	1875 Winslow, Gen. Edward F.
1859 Ward, George Cabot. (L. F.)	1875 Waller, Prof. Elwyn.
1860 Winston, Frederick S.	1875 Whitehead, Com'r Wm., U.S.N.
1866 Wendell, Jacob.	1875 White, Loomis L.
1868 White, Alexander M.	1875 Wissman, J. F.
1869 Ward, Gen. Elijah.	1876 Ward, Roswell B.
1869 Weber, Leonard, M.D.	1876 Walker, Evan T.
1870 Webster, Sidney.	1876 Wedemeyer, A. J. D.
1870 Wilson, Gen. James Grant. (L. F.)	1876 Wrigley, Henry E., C.E.
1870 Wright, E. Kellogg.	1877 Ward, W. S.
1870 Weston, Theodore, C.E.	1877 Waters, James T.
1870 Ward, T. W.	1877 Woodruff, Col. D., U.S.A.
1872 Wetmore, Wm. Boerum. (L. F.)	1878 Whitehead, Henry M.
1872 Williams, Stephen C. (L. F.)	1878 Witherbee, S. H.
1872 Wells, Jacob.	1878 Wells, John W.
1873 Weiner, Joseph, M.D. (L. F.)	1878 Wood, Isaac F.
1874 Weyman, Charles S.	1878 Watson, William.
1874 White, Lt.-Com. H. C., U.S.N.	1878 Whittemore, Charles.
1874 Waite, Chief-Justice M. R.	1878 Whittemore, Thomas W.
1874 Wheeler, Everitt P.	1879 Williams, Richard P.
1874 Wadsworth, Julius.	1879 Watson, Francis A. (L. F.)
1874 Wallack, J. Lester.	1879 Woodbury, Charles H.
1874 Wetmore, George P. (L. F.)	1879 Wirths, Maurice.
1874 Willets, Samuel.	1879 Wilcoxon, George.
1874 Wyckoff, Jacob F.	1879 Wolfe, Miss Catherine. (L. F.)
1874 Williamson, David B.	1880 Ward, Samuel. (L. F.)
1874 Wilder, Marshall P.	1880 Williams, R., Jr.
1884 Wilkeson, Samuel.	1880 Wilson, James.
1874 Walraven, Ira E.	
1874 Wooster, George H.	1871 Youngs, Henry I.
1875 Work, J. Henry.	1874 Young, Mason.
1875 Wheeler, John V.	1875 Yoshida, Kiyonari.
1875 Willard, Lieut. J. H., U.S.A.	1879 Yates, Ellis Samuel.
1875 White, Charles Trumbull.	1880 Young, William.
1875 Wilson, Gen. J. H.	
1875 Wilcox, Franklin A.	1874 Zachos, Prof. J. C.
1875 Wilkes, George.	1875 Zollikoffer, Oscar.

FELLOWS DECEASED, 1880.

1874 Adams, Rev. William.	1874 Haldeman, S. S.
1856 Brown, Stewart.	1859 Lenox, James.
1860 Benedict, Erastus C.	1869 Mount, Richard E. (L. F.)
1868 Bill, Edward.	1870 Myer, Gen. A. J., U. S. Army. (L. F.)
1868 Blake, Charles F.	1874 Neergaard, William.
1856 Colgate, Charles C.	1874 Peckham, Walton H.
1856 Curtis, Chief-Justice Wm. E.	1868 Roberts, Marshall O.
1863 Cowdin, Eliot C. (L. F.)	1874 Riley, Charles V.
1874 Clark, Lot Curran.	1875 Robinson, Henry E.
1875 Childs, Calvin G.	1870 Sistare, George K.
1876 Day, Lieut. Murray S., U.S.N.	1870 Seligman, Joseph.
1869 Field, Dudley.	1874 Squires, Robert.
1868 Gambrill, C. D.	1874 Worth, James L.
1878 Gescheidt, Mrs. A.	1874 Waite, Charles C.
1872 Hoffman, William B.	

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Academy of Natural Sciences, Philadelphia, Pa.
Academy of Natural Sciences, Davenport, Iowa.
Academy of Sciences, St. Louis, Mo.
Academy of Natural Sciences, Minneapolis, Minn.
American Antiquarian Society, Worcester, Mass.
American Naturalist, Salem, Mass.
American Social Science Association, Detroit, Mich.
Astor Library, New York.
Biblioteca National, Rio Janeiro, Brazil.
Boston Society of Natural Sciences, Mass.
Bureau of Education, Washington, D. C.
Caucasian Geographical Society, Tiflis, Russia.
Central Bureau of Statistics, Stockholm, Sweden.
Circolo Geografico Italiano, Turin, Italy.
Comissão Central Permanente de Geographia, Lisbon, Portugal.
Cornwall Library, Cornwall-on-the-Hudson, N. Y.
Cosmos; Guido Coro, Turin, Italy.
Essex Institute, Salem, Mass.
Etablissement Geographique de Bruxelles, Belgium.
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Königl. Gesellschaft der Wissenschaften, Göttingen, Germany.
König-Sächs. Gesellschaft der Wissenschaften, Leipzig, Germany.
L'Exploration, Paris.
Library of Congress, Washington, D. C.
Library Department of State, Washington, D. C.
Literary and Philosophical Society, Liverpool.
Literary and Philosophical Society, Manchester, England.
Literary and Historical Society of Quebec, Canada.
Melbourne Observatory, Melbourne, Australia.
Ministère de l'Agriculture, de l'Industrie et du Commerce, Rome, Italy.
Museo Nacional de Mexico, Mexico.
Mexican Geographical and Statistical Society, Mexico.
Natural History and Philosophical Society, Belfast, Ireland.
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Revue Geographique, 37 Rue Scheffer, Paris.
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Society of Natural Sciences, Buffalo, N. Y.
Statistical Society, London.
Statistische Amt des Deutschen Reichs, Berlin.
The Academy, London.
The Asiatic Society, Yokohama, Japan.
The Japan Gazette, Yokohama, Japan.
Poughkeepsie Society of Natural Science, Poughkeepsie, N. Y.
Toukiyan Geographical Society, Tōkio, Japan.
U. S. Geological Survey, Washington, D. C.
United States Coast Survey, Washington, D. C.
Verein für Erdkunde, Darmstadt.
Verein für Geographie und Naturwissenschaften, Kiel, Germany.
Verein von Freunden der Erdkunde, Leipzig, Germany.
Victoria Institute, or Philosophical Society of Great Britain, London.
Zeitschrift für Geographie, Lahr, Baden, Germany.

PART I.

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OF THE
SOCIETY FOR THE YEAR 1880.

PART II.

PAPERS READ BEFORE THE SOCIETY DURING 1880.

Note.—THE AUTHORS ALONE ARE RESPONSIBLE FOR THE CONTENTS OF
THEIR RESPECTIVE PAPERS.

American Geographical Society.

No. 11 West 29th Street.

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1880.]

BULLETIN
OF THE

[No. 1.

AMERICAN GEOGRAPHICAL SOCIETY,
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ANNUAL ADDRESS
OF
CHIEF JUSTICE DALY, LL.D.,
President of the Society.

Geographical Work of the World in 1878 & 1879.

CONTENTS OF THE ADDRESS.

Introduction.—

Geographical Societies—Measurement of an Arc of the Meridian.

Coast Surveys—Astronomy.

Physical Geography.—

Results of the Scientific Voyage of the *Challenger*—Meteorology.

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Discovery of a Lost City—Chinese Inscriptions at Hissarlik—Prehistoric Remains in Europe
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Africa.—

Flooding the Sahara—The Sources of the Niger—Liberia—The River Ogowa—Stanley's
Recent Labors on the Congo—Rev. T. J. Comber's Exploration in Congo—Major Pinto's
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Lake Tanganyika—Belgian Expeditions—London Missionary Society Expedition—Expedi-
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Keith Johnson's Expedition—Capt. Patterson's Expedition in Matabeli Land.

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